Sample Input Monitor SP-12 / SP-1200

Here is a quick guide for fitting your expansion card. Fitting will normally take between 30-60 minutes depending on your tools and skill level. There is no shame in taking longer! What is important is that it is done correctly.

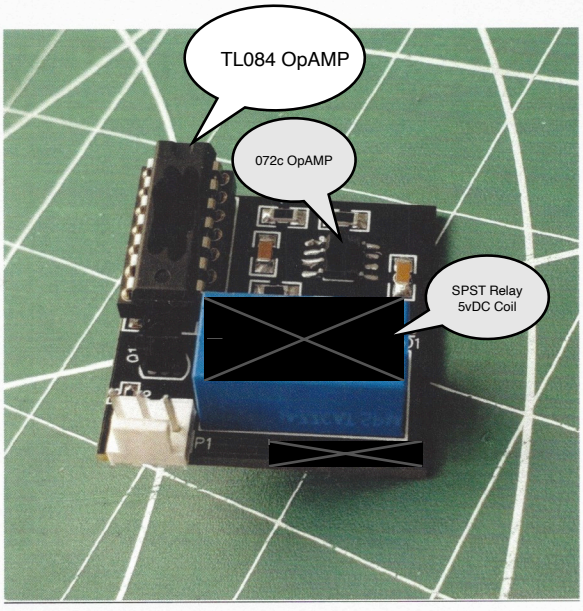
[redacted]

[redacted]

Recommended tools:

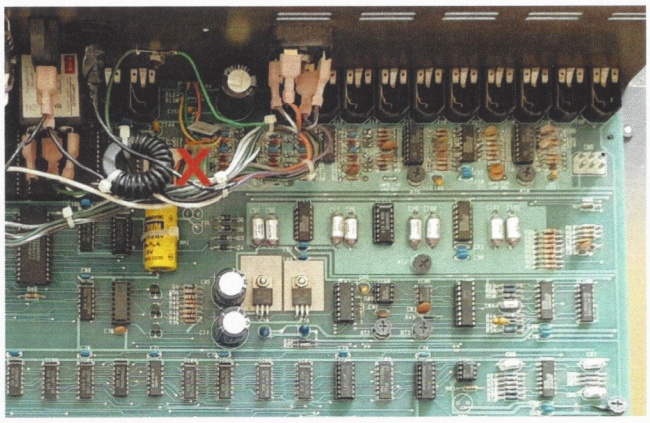
- Temperature regulated soldering iron
- De-soldering pump
- A good flux solder
- Screwdriver
- Small wire cutters (optional)
- Multimeter (optional)
- Isopropyl alcohol (optional)

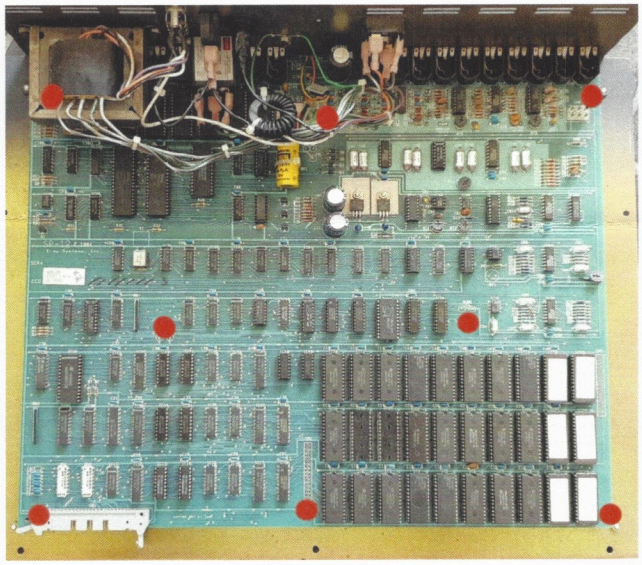
The [redacted] has been carefully designed to provide the best mount and circuit modification without being too intrusive to the sampler's original design. The card itself mounts within an IC socket on the motherboard. This takes care of mounting the card and a lot of its circuitry. Once correctly fitted, the upgrade looks very tidy.



[redacted]

STEP 6: Unplug CN6 PSU cable from motherboard and remove all 6 screws that attach the motherboard to the base of the unit.
If you have a 12 or grey 1200 you will also need to unscrew the voltage regulator that is mounted to the rear of the SP12/1200. *Make a note of how the grommet and spacers are used.*

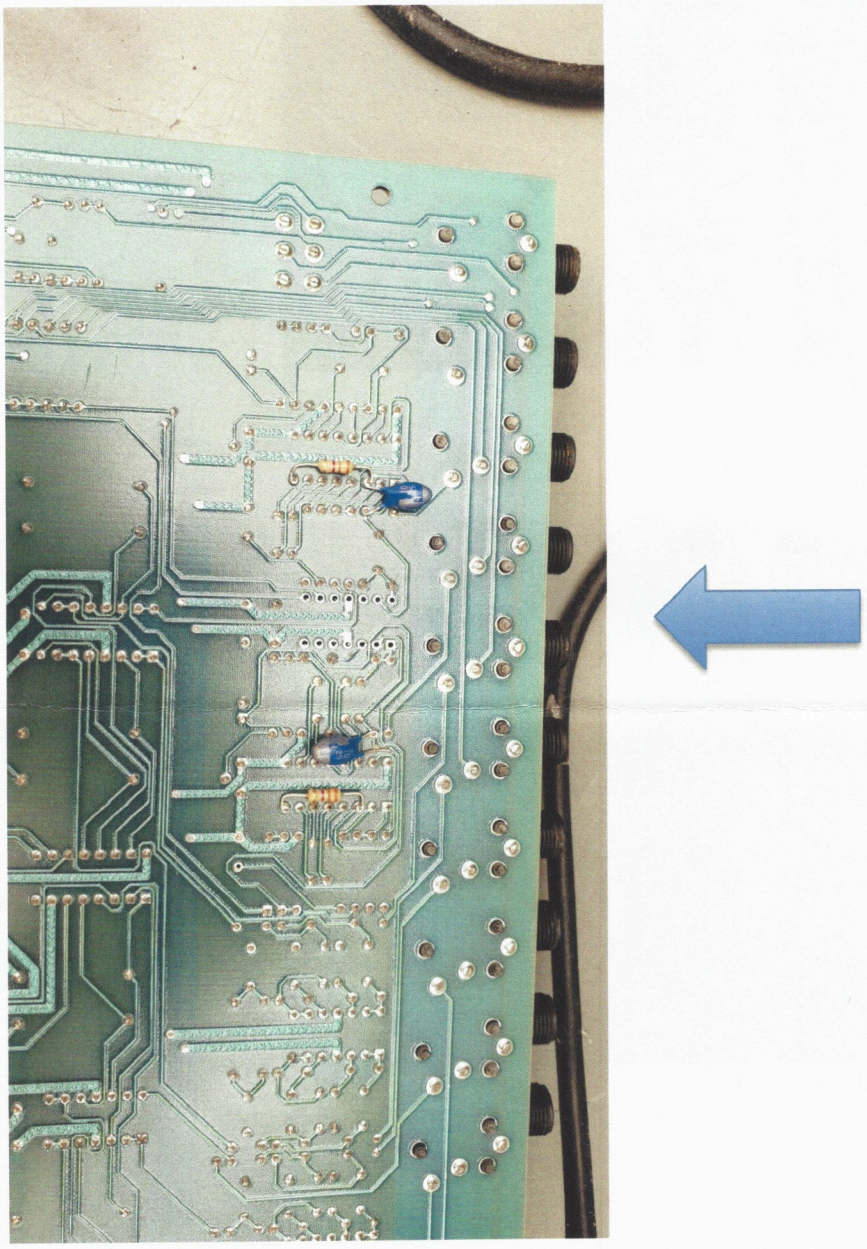




STEP 7: Turn to rear of the unit and carefully remove all the nuts and washers from all 16 insert sockets. Occasionally the washers stick to the body, if they do don't worry as they can stay there.

STEP 8: Once all screws are removed and nuts from the rear, the motherboard should move freely. It is best to give it a careful wiggle before attempting to lift out, just to check.

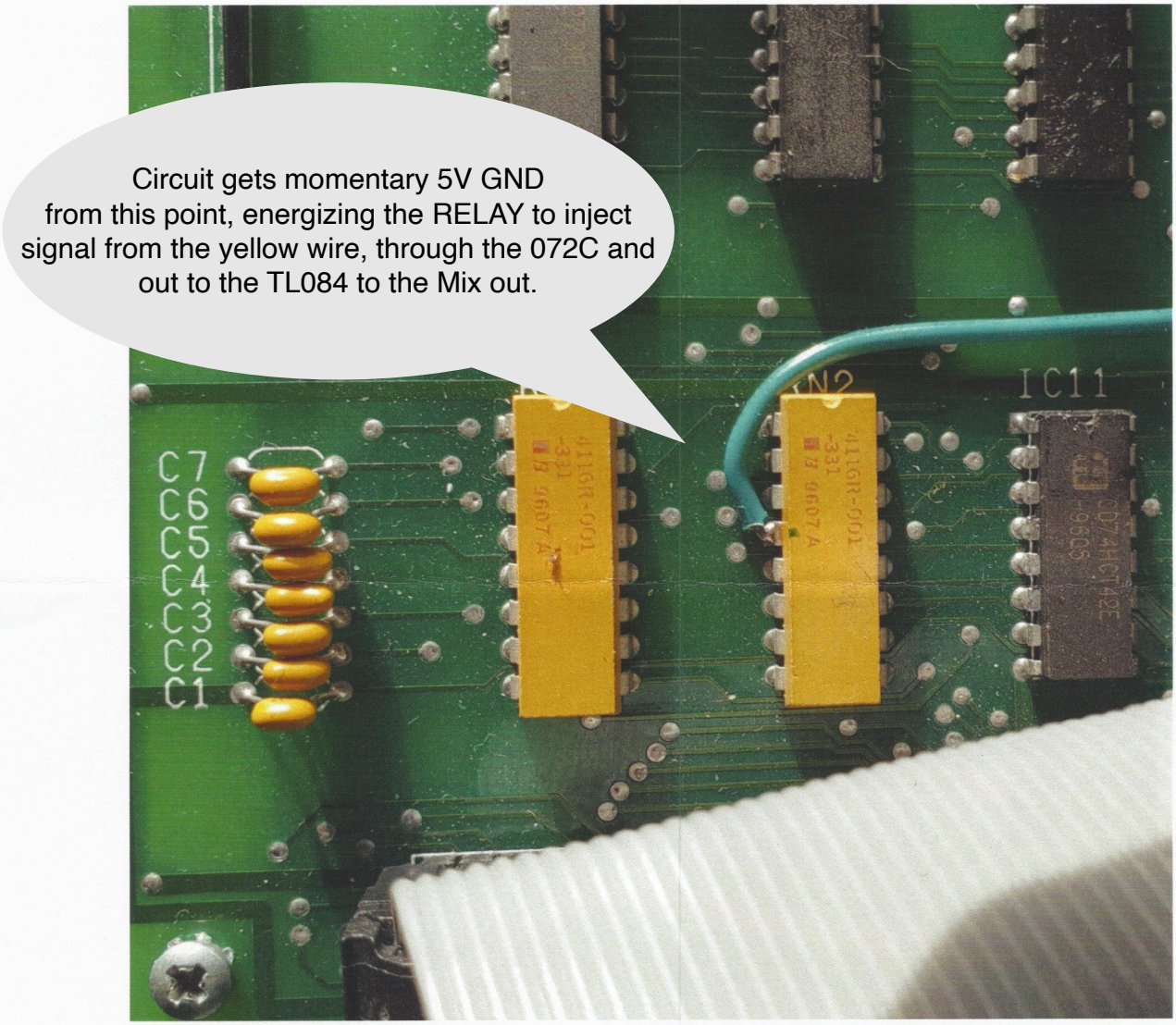
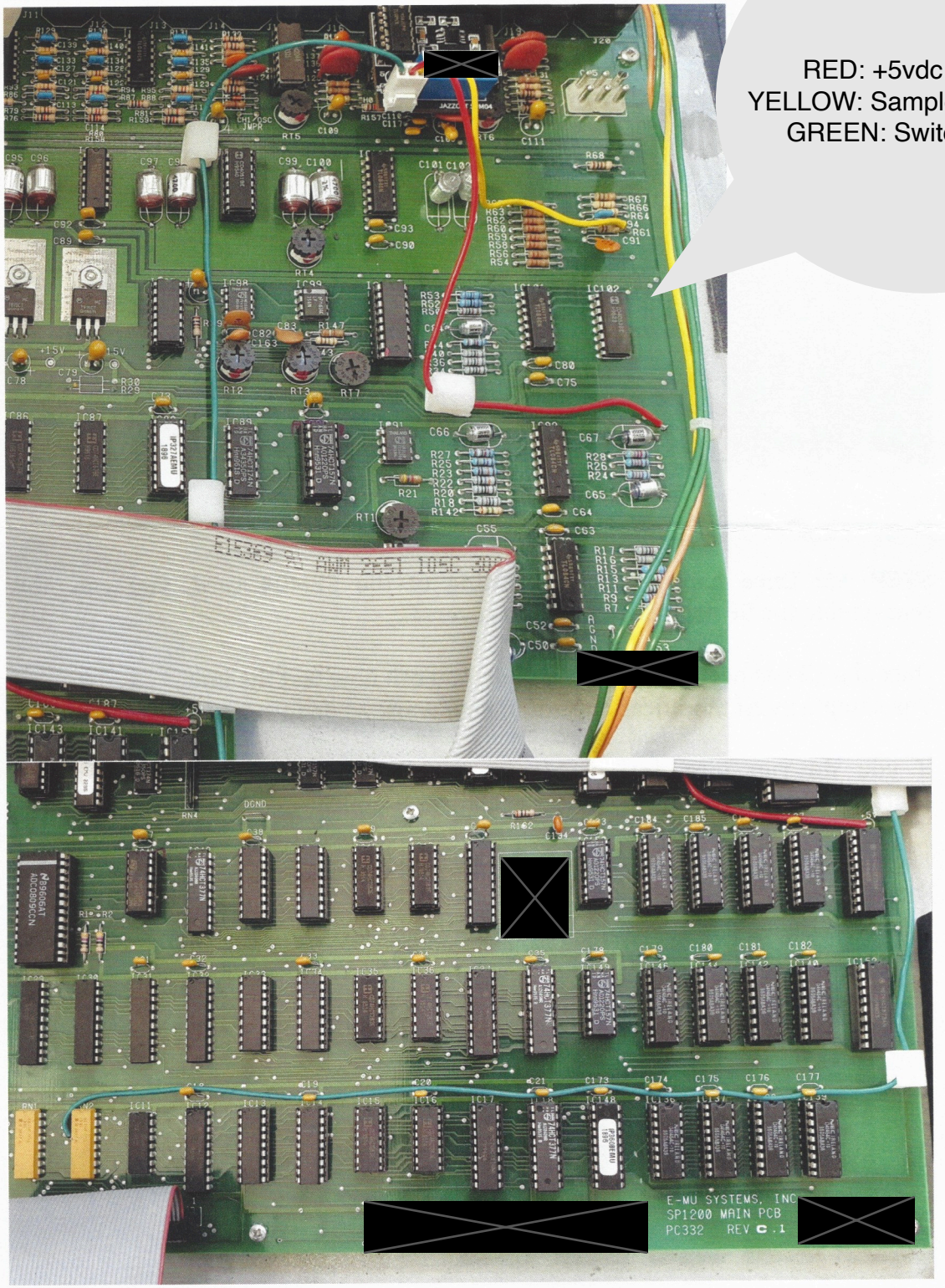
STEP 10: Carefully de-solder all 14 solder points so that the metal legs are no longer fixed to the board. Once these are clear of solder, the chips legs will remove easily from the board. Occasionally the solder will not flow nicely. I find adding some fresh solder first makes it easier to remove all the solder from these points.



STEP 11: Once IC 124 has been removed it is time to check your solder points are undamaged and free from any small debris left from removal. Once happy with this you can insert the new IC socket so the notch faces up and solder in place. Please ensure socket is flat and tight to the board before soldering as this provides strength to the legs and solder joints. Once in place, clean the area with rubbing alcohol/ Isopropyl and check for shorts in the circuit.

STEP 12: Please find the 3 way cable I have provided in this Kit. This cable is colour coded to ensure they are soldered in the correct locations.

Green wire - Pin 4 on RN2
Yellow wire - Right hand side of R61
Red wire - Location X
It is easier to add a small amount of solder to each point first.


Circuit gets momentary 5V GND from this point, energizing the RELAY to inject signal from the yellow wire, through the 072C and out to the TL084 to the Mix out.
IC11
C7
C6
C5
C4
C3
C2
C1
GREEN WIRE ON PIN 4 OF RN2 (BOTTOM LEFT OF MOTHERBOARD)

STEP 13: Time to tidy these wires!! You can use blobs of hot glue or whatever you like for this bit, but here is a quick suggestion:
Carefully wrap the green cable between the decoupling capacitors to keep it in place and use the provided adhesive wire grips for the rest.